

IOWA ACUTE DISEASE MONTHLY UPDATE

CENTER FOR ACUTE DISEASE EPIDEMIOLOGY

August, 2018



Iowa Department of public Health

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INTRODUCTION

The Center for Acute Disease Epidemiology (CADE) uses the most recent Council of State and Territorial Epidemiologists (CSTE) / Centers for Disease Control and Prevention (CDC) case definitions found on the [National Notifiable Disease Surveillance System \(NNDSS\)](#) page. These definitions are used to classify the case as confirmed, probable, suspect, not a case, or awaiting more information. **Only confirmed and probable cases meeting the CSTE/CDC case definitions are included in official case counts.**

CADE began using the suspect case definition as a final classification on Jan 1, 2017. Suspect cases are not included in the official case count but only meant to better estimate burden of disease. Any counts in this report from dates prior to Jan 1, 2017 do not include suspect cases.

Disease case counts were compiled from the Iowa Disease Surveillance System (IDSS). Data are provisional and subject to monthly reporting variation.

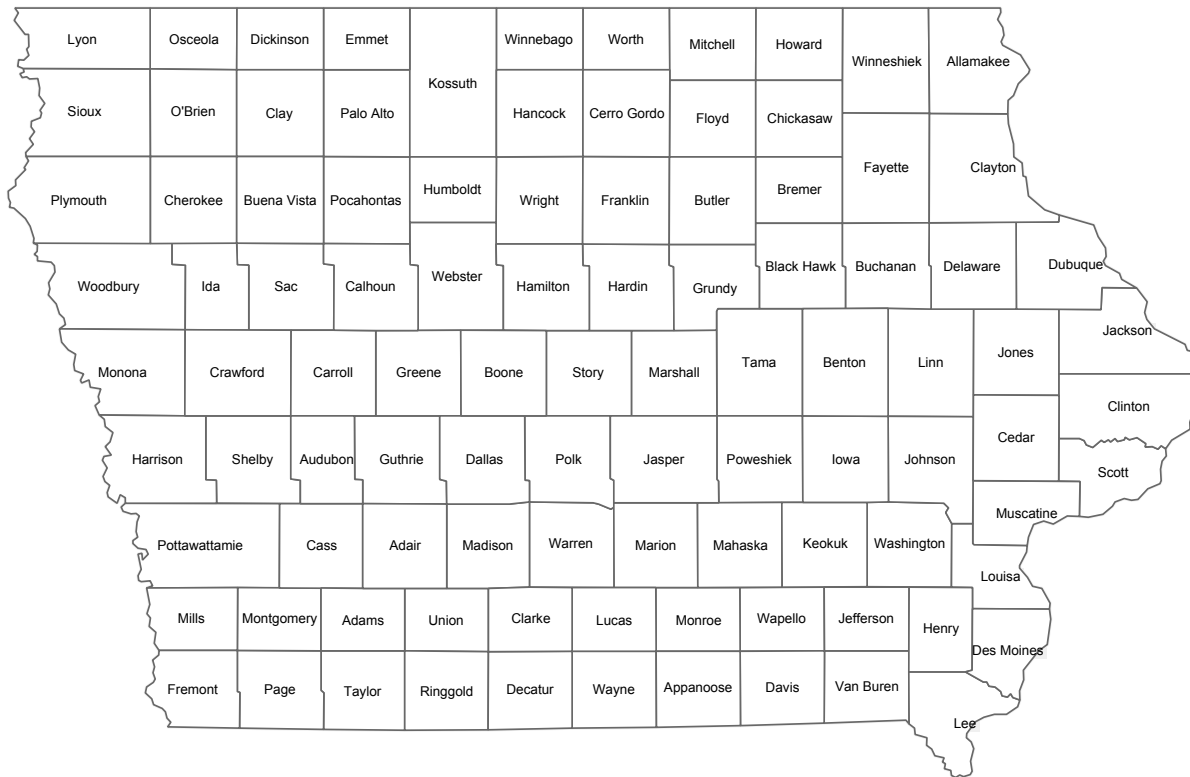
Hospitalization data is collected from the IDSS database. In some instances, cases may have been hospitalized for reasons other than the disease indicated.

Forecasting was done using Tableau forecast models.

Rates were calculated using the April 1, 2010 estimated census population for the State of Iowa.

Iowa County Boundaries and Population

2010 Census Data



April 1, 2010 population estimates

Adair	7,682	Floyd	16,303	Monona	9,243
Adams	4,029	Franklin	10,680	Monroe	7,970
Allamakee	14,330	Fremont	7,441	Montgomery	10,740
Appanoose	12,887	Greene	9,336	Muscatine	42,745
Audubon	6,119	Grundy	12,453	O'Brien	14,398
Benton	26,076	Guthrie	10,954	Osceola	6,462
Black Hawk	131,090	Hamilton	15,673	Page	15,932
Boone	26,306	Hancock	11,341	Palo Alto	9,421
Bremer	24,276	Hardin	17,534	Plymouth	24,986
Buchanan	20,958	Harrison	14,928	Pocahontas	7,310
Buena Vista	20,260	Henry	20,145	Polk	430,640
Butler	14,867	Howard	9,566	Pottawattamie	93,158
Calhoun	9,670	Humboldt	9,814	Poweshiek	18,914
Carroll	20,816	Ida	7,089	Ringgold	5,131
Cass	13,956	Iowa	16,355	Sac	10,350
Cedar	18,499	Jackson	19,848	Scott	165,224
Cerro Gordo	44,151	Jasper	36,842	Shelby	12,167
Cherokee	12,072	Jefferson	16,843	Sioux	33,704
Chickasaw	12,439	Johnson	130,882	Story	89,542
Clarke	9,286	Jones	20,638	Tama	17,767
Clay	16,667	Keokuk	10,511	Taylor	6,317
Clayton	18,129	Kossuth	15,543	Union	12,534
Clinton	49,116	Lee	35,862	Van Buren	7,570
Crawford	17,096	Linn	211,226	Wapello	35,625
Dallas	66,135	Louisa	11,387	Warren	46,225
Davis	8,753	Lucas	8,898	Washington	21,704
Decatur	8,457	Lyon	11,581	Wayne	6,403
Delaware	17,764	Madison	15,679	Webster	38,013
Des Moines	40,325	Mahaska	22,381	Winnebago	10,866
Dickinson	16,667	Marion	33,309	Winneshiek	21,056
Dubuque	93,653	Marshall	40,648	Woodbury	102,172
Emmet	10,302	Mills	15,059	Worth	7,598
Fayette	20,880	Mitchell	10,772	Wright	13,229

Case Counts for July 2018
Confirmed, Probable, and Suspect Cases
Note: Only counties with cases in June are displayed in the table

[illegible]

Case Counts for July 2018
Confirmed, Probable, and Suspect Cases
Note: Only counties with cases in June are displayed in the table.

	Anaplasmosis/ Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	E. coli (STEC)	Giardiasis	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute and chronic)	Legionellosis	Lyme	Malaria	Mumps	Pertussis	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	West Nile virus	Grand Total
Ida		2																		2
Iowa				2								1								3
Jackson		7		4		4						1					1			17
Jasper		3				1														4
Jefferson												1								1
Johnson		4		1	1	7				1		6					8	2		30
Jones						1						1					1			3
Keokuk		2																		2
Kossuth		1	1	1													2			5
Lee		1		1		2						3					1			8
Linn		15		9	5	12			1			6			1		4	2		55
Louisa		2																		2
Lucas		1		1																2
Lyon		1																		1
Madison		4																		4
Mahaska		1				1											2			4
Marion	1	3		1	1											1				7
Marshall		1								1							1	1		4
Mills		2																		2
Mitchell	1	1		2		2														6
Monona		1			1	1											2			5
Monroe				2														1		3
Montgomery																	1			1
Muscatine		1		2					1			1								5
O'Brien		3				2														5
Page		1																		1
Palo Alto																			1	1
Plymouth				1	3	3					1						1			9
Pocahontas																	1			1
Polk		22		7	12	21	5			5	1	2	1		1	1	23	3		104
Pottawattamie		2				1						1					1			5
Poweshiek		1		1													3			5
Ringgold		1																		1
Sac		3					1											1		5
Scott		1		4	3	3	2	1		1		4	1		3		3			26
Shelby				1																1
Sioux		6		3	3	1									1		3			17
Story		5		1	7	3				2					1		4	1	1	25
Tama		1				1											1			3
Union		1																		1
Wapello		2		2							1						3			8
Warren		4	1	1		2														8
Washington						3											3			6
Wayne		1																		1
Webster		4		1		3						1					1			10
Winneshiek		3		4		2											1			10
Woodbury		5		2	1	2				1							1			12
Worth																	1			1
Wright		1															1			2
Grand Total	3	195	3	110	58	110	13	1	2	11	4	44	3	1	10	4	120	12	2	706

YTD Case Counts

(Counties A-J)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/ Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	E. coli (STEC)	Giardiasis	Hansen's disease	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute and chronic)	Legionellosis	Listeria	Lyme	Malaria	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Typhoid fever	Grand Total
Adair		6		3		3														2			14
Adams		1																		1			2
Allamakee		20		8	1	3	1							7						9			49
Appanoose		4		3		2								1				1		6			17
Audubon		1					2													2			5
Benton		6		2	4	9	2					1		2			1			9	1		37
Black Hawk		7	1	1	8	5	1				3	2		3	1	3	2			30	4		71
Boone	1	10		7	1	4	1							2					1	9			36
Bremer		2			2	1					1			1			1	1		9	1		19
Buchanan		5		6	9	5	1							2		1	1			4			34
Buena Vista		7	2	2	1	1	2				2						1			7	2		27
Butler		3			1	1														7			12
Calhoun		8		2	1	5					1					1				4			22
Carroll		7		7		5														5			24
Cass		1		3							1			1					1	5			7
Cedar		8		1		2	1				1			1									19
Cerro Gordo		15	1	2	4	1					1						20			13			57
Cherokee	1	1		1		1	2													1			7
Chickasaw		1												1						3			5
Clarke	1	11		6		3											1			1	1		24
Clay		5		1			2													5			13
Clayton		13		5	1	7	1				1			5			5			4			42
Clinton		7		5	3						3	2				1	1			8			30
Crawford		5		4		1				1	5				3					1	1		21
Dallas	1	22		10	8	9	3				1			3		2				18	3		80
Davis		2												1					1	4			8
Decatur				1			1							1									3
Delaware		19		16		6	4													9			54
Des Moines		9		9		2	1					2		1						15	1		40
Dickinson		2		4										2						5			13
Dubuque	1	30		25	4	18	6	1	1		2	2		25	1	1	3			19	5		144
Emmet	1						1												1	3			6
Fayette		8		11	3	3								1			17			4			47
Floyd		4		1	8	1	1													3			18
Franklin		5		1	1															4			11
Fremont		1		2		1																	4
Greene		7		1		1														5			14
Grundy		2																		2			4
Guthrie		5		2							1									1	1		10
Hamilton		3		3			1				1			1			1			2			12
Hancock		2				2	1													1			6
Hardin		4		1	2	1														2			10
Harrison		2																		5			7
Henry		1		2										1						3			7
Howard		8				2														4			14
Humboldt		10			1	3										1				1			16
Ida		7		1																1			9
Iowa		3		5		3								2						2	1		16
Jackson		16		8		7	2				1			3		2				10			49
Jasper		11		5	2	4	5							1						10			38
Jefferson		3					2				1			3	1		3			2			15
Johnson	2	26		7	7	26	10				8	1	2	37	2	1	2			26	2	1	160
Jones		7		16		2	2							2				1		7			37

YTD Case Counts

(Counties K-W)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/ Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	E. coli (STEC)	Giardiasis	Hansen's disease	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute and chronic)	Hepatitis D	Legionellosis	Listeria	Lyme	Malaria	Meningococcal invasive disease	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Typhoid fever	West Nile virus	Total
Keokuk		5		1		1							1		1					1		1				11
Kossuth		5	1	1	1																	6				14
Lee		2	3	2		2							1		4						1	6				21
Linn		53		20	20	25	3			2	9	1	2	1	35	1		2	7		2	90	4			277
Louisa		3																		1		3				7
Lucas		7		6			1															3				17
Lyon		9		6		2					1											3				21
Madison		6		2		7	3															8				26
Mahaska		3				5	1															8				17
Marion	2	12		3	5		1								1		1				1	6				32
Marshall		2	1	1		3	2				4		1		1							10	1			26
Mills		7		1			2														2	1				13
Mitchell	1	5		7	3	6	1															4				27
Monona		2		1	2	1					1											2				9
Monroe	2			3		1	1								1							1	1			10
Montgomery		1		1			1															6				9
Muscatine	1	9		2						1	2		2		4	1		1				10	1			34
O'Brien		10		3		2													1		2	5				23
Osceola		8		3		3																	1			15
Page		2																				2				4
Palo Alto		2		1			1							1											1	6
Plymouth		4		11	6	6	1						1									9				38
Pocahontas		7			1	1					1											4				14
Polk		173	1	35	38	50	24			1	40	1	5		8	5		4	6		3	117	13	2		526
Pottawattamie		12		2		2	2				2				1							14				35
Poweshiek		3		1		1	2				1				1				1			6				16
Ringgold		6		2		2	1															1				12
Sac		11		10		3	2			1												2	1			30
Scott		16		8	4	17	5		2	1	4				8	1			10			24	9			109
Shelby		3		3																		9				15
Sioux		25		17	3	10	1												2			19				77
Story		17		5	29	8	2				6				1	1		1	1			20	3	1		95
Tama		9		1		3									2							9				24
Taylor			1			1																2				4
Union		5		1		1					1											8	1			17
Van Buren	1	2				1	1													1						6
Wapello	1	9		7		1					2		1	1	1							8				31
Warren		13	1	5		7	2				1		1		2				1			16				49
Washington		3		1		3	1				1				1				4			9				23
Wayne		1				1	2															2				6
Webster		20		5		12					1				5							20				63
Winnebago		2				3																2				7
Winneshiek		10		5	2	3	1				2				5							2				30
Woodbury		20	1	23	4	6	2				10					2						23				91
Worth		1			1																	1				3
Wright		16	1		1	2																5				25
Grand Total	16	914	14	406	192	352	122	1	3	7	123	2	25	5	192	19	1	21	92	6	15	820	58	3	2	3411

Case Counts for August 1, 2017 - July 31, 2018

(Counties A-E)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/Ehrlichiosis	Brucellosis	Campylobacteriosis	Chikungunya	CRE	Cryptosporidiosis	Cyclosporiasis	E. coli (STEC)	Giardiasis	Haemophilus influenzae type b	Hansen's disease	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute and chronic)	Legionellosis	Listeria	Lyme	Malaria	Meningococcal invasive disease	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Tularemia	West Nile virus	Grand Total
Adair			8			3		3													2			4				20
Adams			1					1																1				3
Allamakee	4		25			16	1	5	1								8							14				74
Appanoose			8			5		3						1			1					1	1	8				28
Audubon			1					1	2															3				7
Benton			12			9	4	11	2					1	2		7			6	1			12	1			68
Black Hawk			11	1	1	4	8	5	5					9	3		4	1	1	6	15			38	5			117
Boone	1	1	19			8	1	7	2	1		1					2						1	18				62
Bremer			3				2	1						2			2			1	2	1		10	1			25
Buchanan			10		2	8	9	8	2	1							2			2	1			7				52
Buena Vista			16		2	5	1	2	2			1		4			1				1			8	8		1	52
Butler			3				1	1	1															8				14
Calhoun			15			2	1	9						1					1				1	6	1			37
Carroll			10			9		8													1			8				36
Cass			3			3		1	1					2			1						1	3				15
Cedar			11			4		3	1					1			1							7	1			29
Cerro Gordo			23		3	6	4	4	1					1		1					20			13				76
Cherokee	1		1			1		3	2							1								3				12
Chickasaw			3		1										1		1							5				11
Clarke	1		18			8		3													1			4	2			37
Clay			8			2			2					1										6				19
Clayton	1		18		1	17	1	8	1			1		1			9			1	5			5				69
Clinton			17		1	7	3							5	3					2	1			13				52
Crawford			13			5		4	1				1	5				3						2	2			36
Dallas	2		41		1	31	8	14	6					4			3			2	6			24	8			150
Davis			3			1							1				1						1	4				11
Decatur						2		1	2								1								1	1		8
Delaware			25			20		8	5										1	1				10				70
Des Moines			11			12		3	1				2		2		1							16	3			51
Dickinson			6			5		1						1			2							6				21
Dubuque	1		48		3	41	5	27	13		1	1		4	4		35	1		2	3		1	28	6			224
Emmet	1		1			2			1														1	3				9

Case Counts for August 1, 2017 - July 31, 2018

(Counties F-L)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	E. coli (STEC)	Giardiasis	Hepatitis A	Hepatitis B (acute and chronic)	Hepatitis D	Legionellosis	Listeria	Lyme	Malaria	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Typhoid fever	West Nile virus	Zika virus	Grand Total
Fayette		9		11	3	5	1		1				3			17			8					58
Floyd		7		1	8	1	1						2						7					27
Franklin		5	1	1	1	2									1				5	2				18
Fremont		2		2		1												1		1				7
Greene		10		1		5	1												5					22
Grundy		2													1				6					9
Guthrie		8		3		2	1		1						1	2			4	1				23
Hamilton		6		5		1	1		1				1			1			2	1				19
Hancock		3	1	5		2	1												5					17
Hardin		10		1	2	2	1						1						4					21
Harrison	1	3												1				1	6					12
Henry		3		2			1						1						4					11
Howard		9		1		2			1										4					17
Humboldt		13		1	1	3	1								1				2					22
Ida		8		2															1					11
Iowa	1	5		7		3	1						2				1		2	1				23
Jackson		21	1	8		10	4		1				5		2	2			10					64
Jasper		21	2	9	2	8	5		1				1						13					62
Jefferson	1	7			1		3		2				3	2		3			3					25
Johnson	3	41	1	13	7	37	16		17		2	2	44	3	3	11			42	3	1			246
Jones		12	3	17		3	5		1				4				1		7					53
Keokuk		7		5		1					1		1				1		3					19
Kossuth		8	2	2	1	2	1		1										6					23
Lee		5	14	4		4	1				1		4					1	9					43
Linn		78	6	41	20	34	17	2	18	1	2	1	39	2	3	13		2	118	7		1		405
Louisa		5					1		1								1		3				1	12
Lucas		14		9		3	2										1		3					32
Lyon		12		8		3	1		1										9			2		36

Case Counts for August 1, 2017 - July 31, 2018

(Counties M-W)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/Ehrlichiosis	Brucellosis	Campylobacteriosis	Chikungunya	CRE	Cryptosporidiosis	Cyclosporiasis	Dengue	E. coli (STEC)	Giardiasis	Haemophilus influenzae type b	Hansen's disease	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute and chronic)	Hepatitis D	Hepatitis E	Legionellosis	Listeria	Lyme	Malaria	Meningococcal invasive disease	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Tularemia	Typhoid fever	West Nile virus	Zika virus	Grand Total	
Madison			15			9			10	4																	9							48
Mahaska			8			1			7	2																	12			1				30
Marion	2		17			5	5		2	1										2		1				1	7							43
Marshall			8		2	2			5	3					9	1		2		2							13	1						48
Mills			8			3			1	2								1								2	1							18
Mitchell	1		14		1	10	3		8	2																	6							45
Monona			2			1	2		1	1					1												3							11
Monroe	2		1			4			4	1										1				2			2	1						18
Montgomery			4			1				1															2		2							12
Muscatine	1		14		3	3		1	11	1				1	4		1	2		6	1		1				6							79
O'Brien			17		1	4			2	1															1	2	7	15						35
Osceola			9			4			3																		1	1						18
Page			4			1				1																	3							9
Palo Alto			10			1			1	1									1								1					1		16
Plymouth			7		2	19	6		10	1								1									10							56
Pocahontas			11			2	1		4				1		1												7							27
Polk			260		8	73	38	1	77	48				3	82	2		7		16	9		6	21	1	5	158	31		2	1			849
Pottawattamie			19			5		1	4	4					2			2		1				3		1	22	1			1			66
Poweshiek			6			2			4	2					1					1				1		1	9				1			28
Ringgold			8			4			3	1										1							1							18
Sac			17			11			4	5				1													4	1						43
Scott	1		35		4	11	4		23	14			2	1	7			2		11	1	1		35			32	45						229
Shelby			4			8			3				1													1	13							30
Sioux			32			33	3		10	3					1									2			29	1						114
Story			32		1	13	30		12	9					9			1		2	2		2	1			28	6			1			149
Tama			11			4			3											3			1				14	3						39
Taylor					1				1																		2							4
Union			13			1			5	1					1												9	1						31
Van Buren	1		6			2			2	1															1		1							14
Wapello	1		18			8			5						6	1		1	1	1	1			1			11							55
Warren			24		3	10			9	5					3			1		2			1	3		1	23	1						86
Washington			9			3			3	2					1					1				5			10							34
Wayne			1						1	2																	4							8
Webster			23			5		1	12	2					1					5			1				25							75
Winnebago	1		3			2			3																		2							11
Winneshiek			16		1	10	2		3	1					2		1			11							6							53
Woodbury			26		4	35	4	1	9	7					17						2						28	1			1			135
Worth			2		1	3	1		1																		1							9
Wright			21		2		1		2																		6	4						36
Grand Total	28	1	1461	1	80	708	195	5	547	249	2	1	8	12	238	5	2	41	7	259	29	3	48	184	10	25	1128	168	2	3	10	1		5461

Cryptosporidium

110

Cases in July

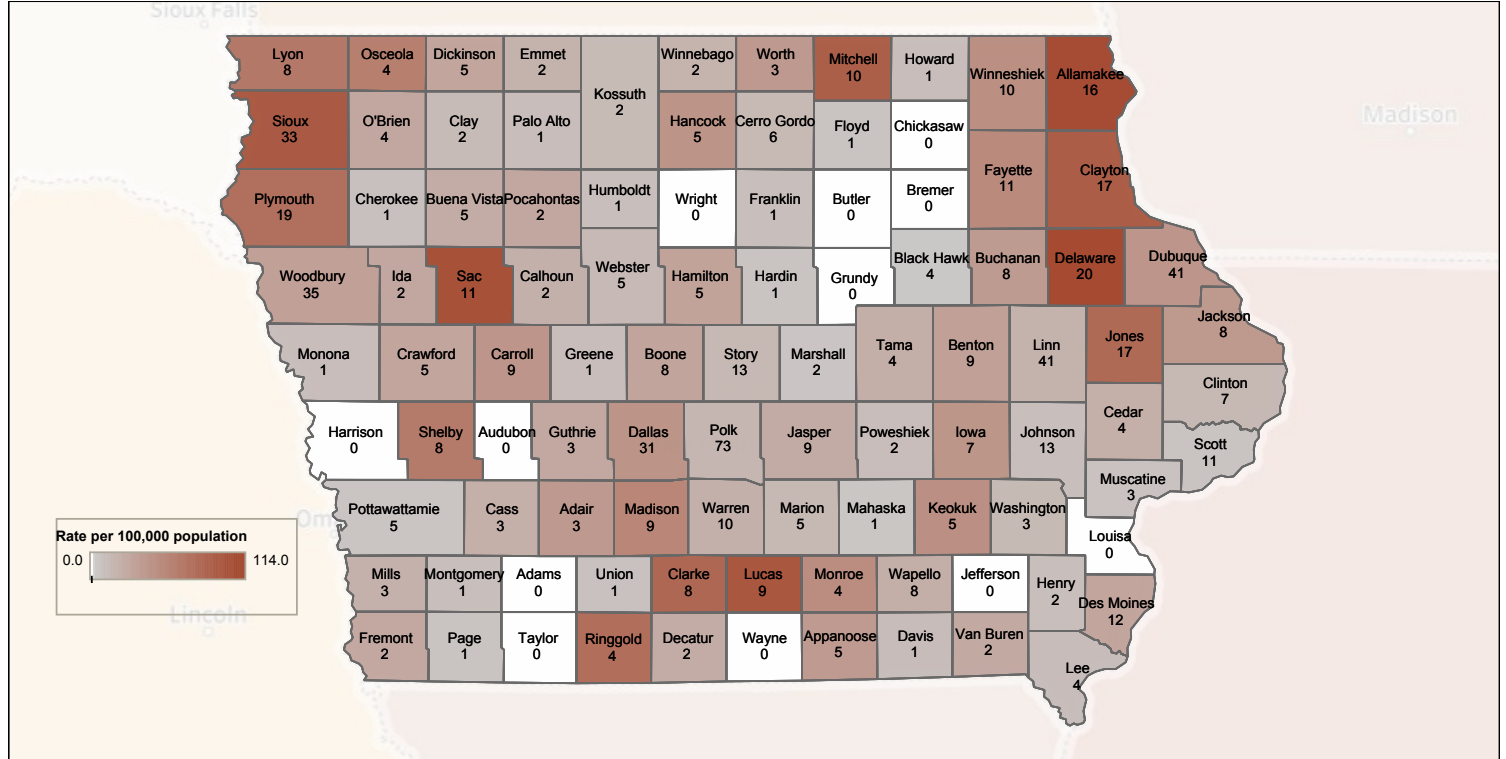
708

Cases in the last 12 months

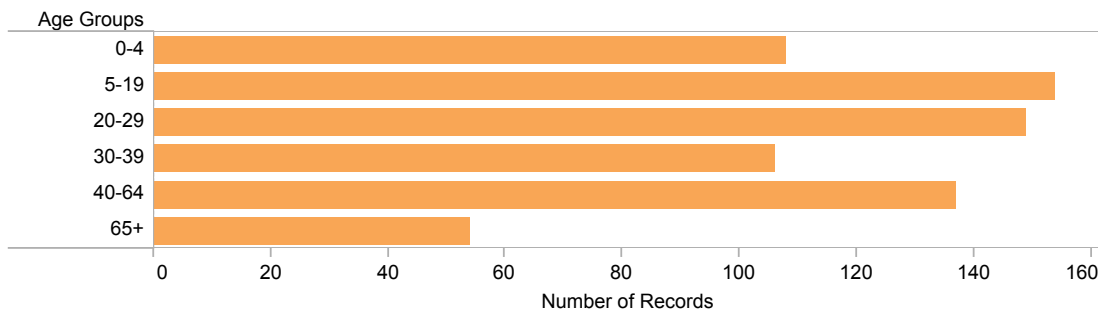
12%

Change from previous
5 year average

Reported cryptosporidiosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Cryptosporidiosis cases by age past 12 months



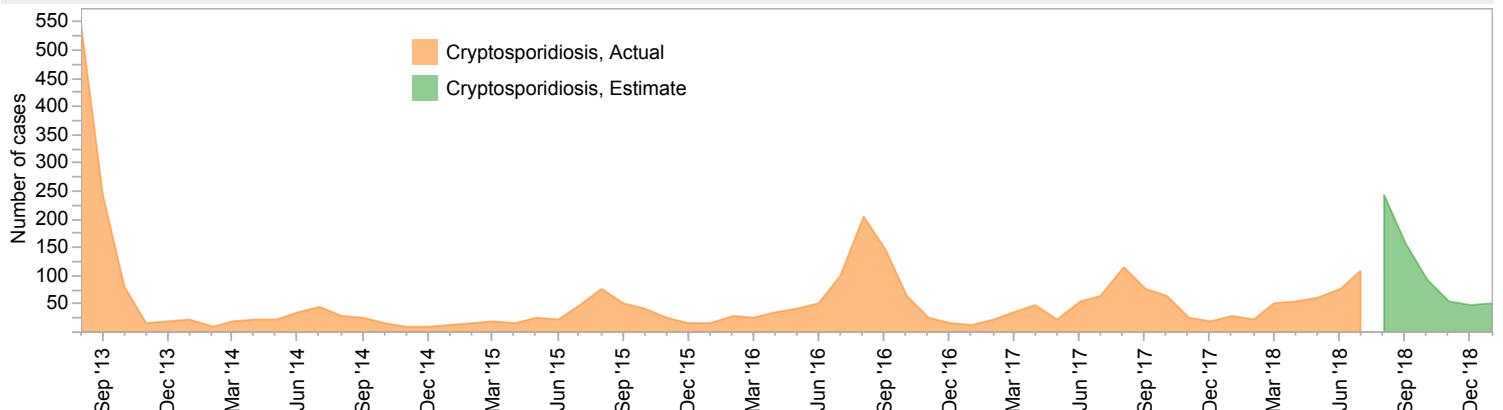
11%

of *Cryptosporidium* cases
were hospitalized in the
past 12 months

Cryptosporidiosis cases by gender past 12 months



Reported cryptosporidiosis cases by date of onset or first lab result and 6 month forecast



E. coli (STEC)

110

Cases in July

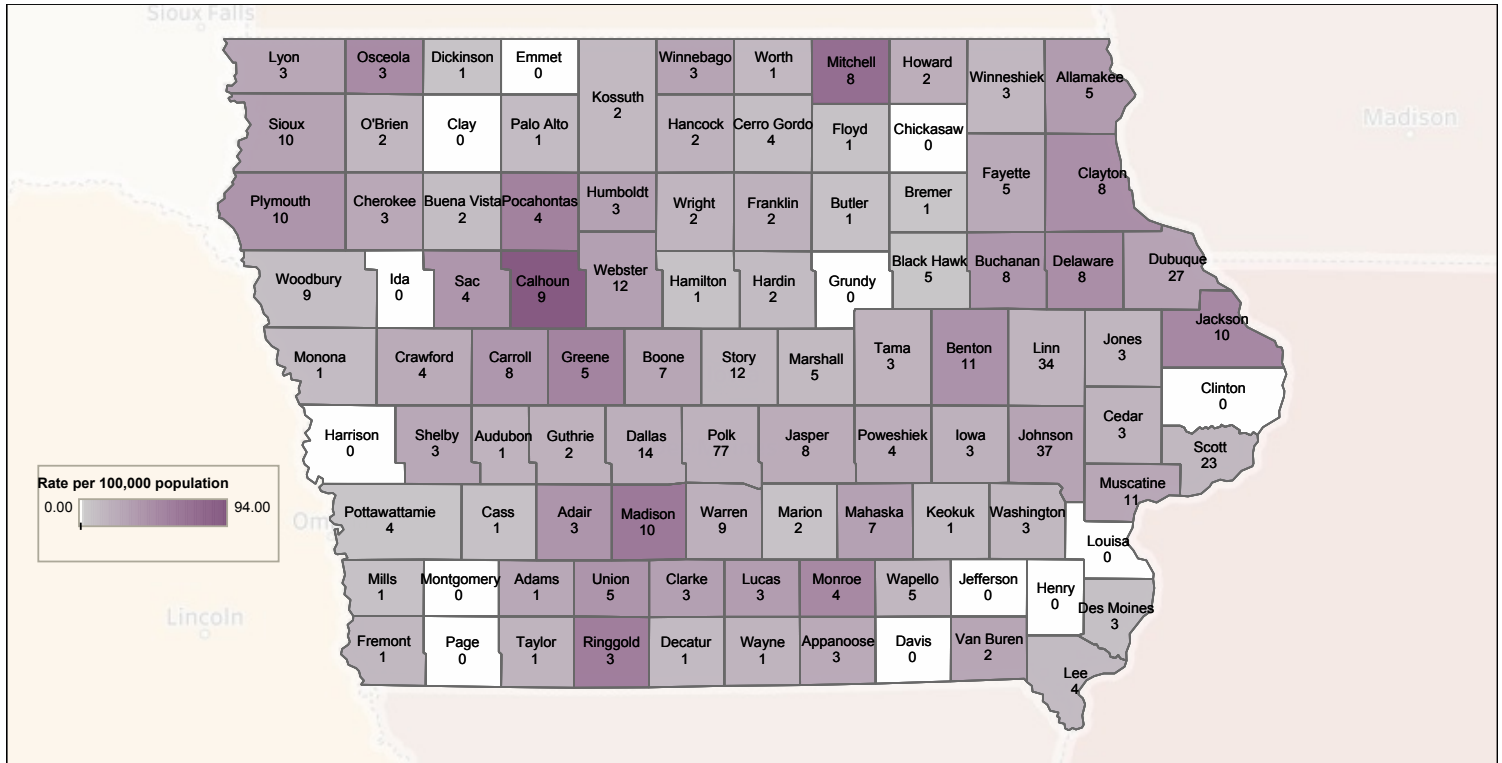
547

Cases in the last 12 months

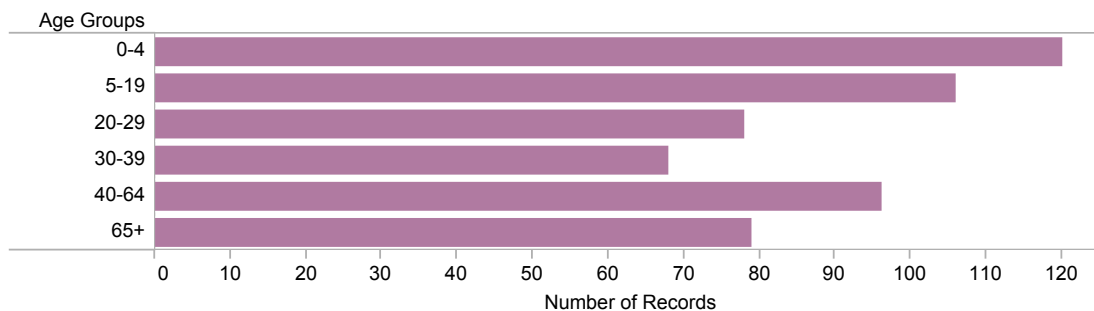
+171%

Change from previous
5 year average

Reported *E. coli* (STEC) cases and incidence rates per 100,000 population by county of residence for the past 12 months



E. coli cases by age past 12 months. Almost half of all cases occur in the 0-19 age groups.



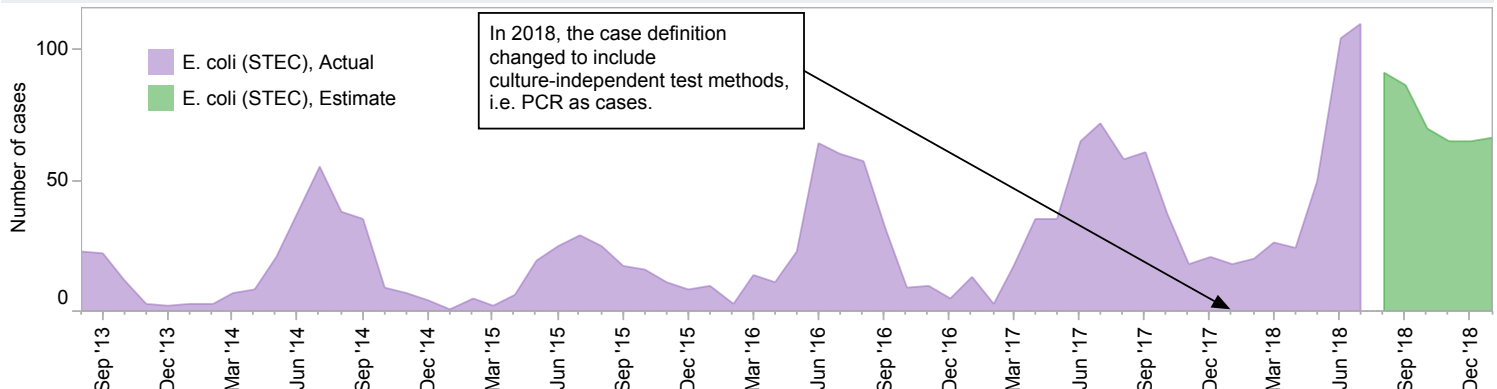
22%

of *E. coli* (STEC) cases
were hospitalized in the
past 12 months

E. coli cases by gender past 12 months

Female	305
Male	242

Reported *E. coli* (STEC) cases by date of onset or first lab result and 6 month forecast



Lyme disease

44

Cases in July

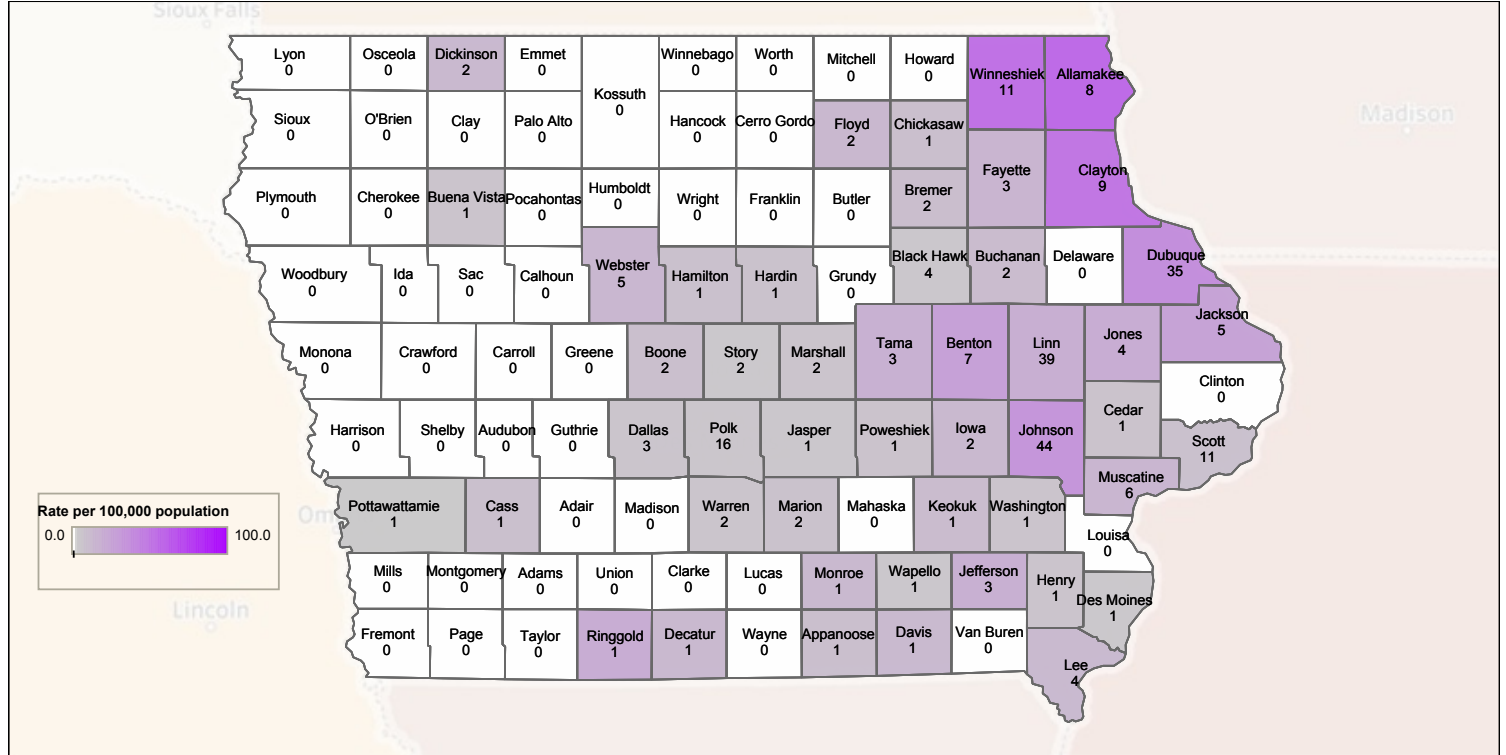
259

Cases in the last 12 months

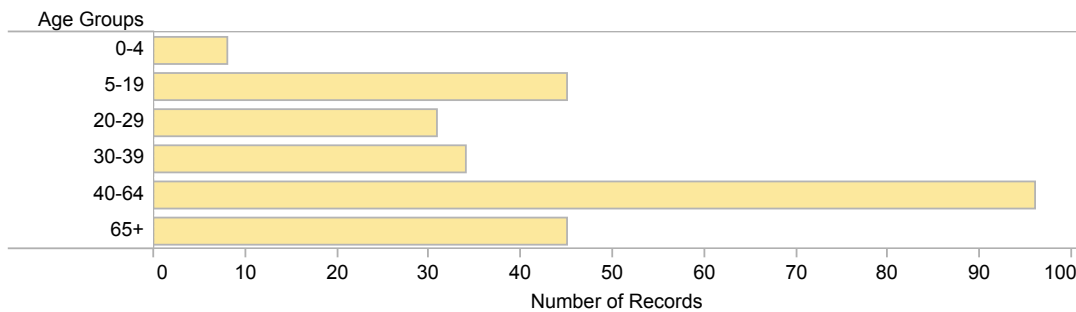
8%

Change from previous
5 year average

Reported lyme disease cases and incidence rates per 100,000 population by county for the past 12 months



Lyme disease cases by age past 12 months.



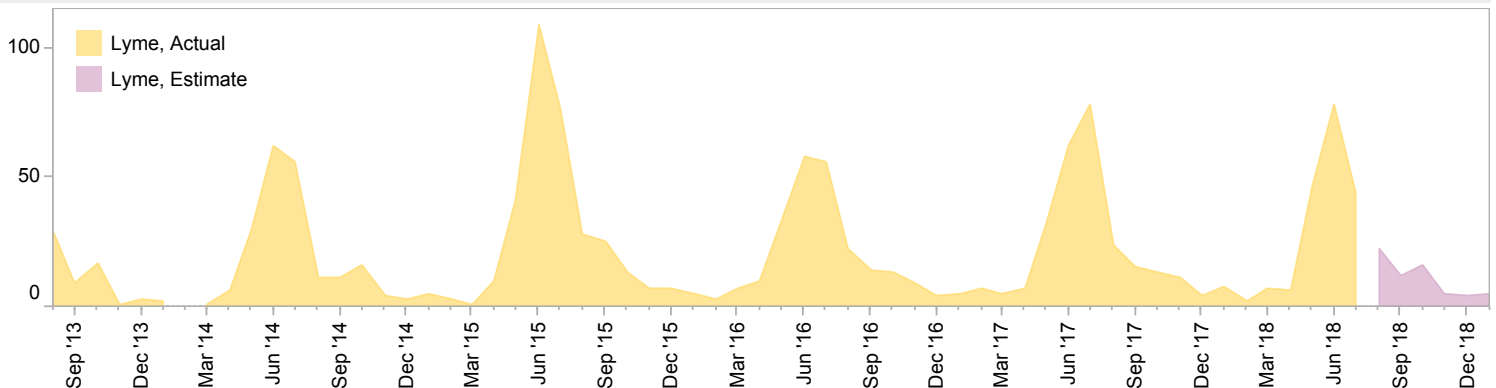
12%

of Lyme disease cases were
hospitalized in the past
12 months

Lyme disease cases by gender past 12 months

Female	102
Male	157

Reported lyme disease cases by date of onset or first lab result and 6 month forecast



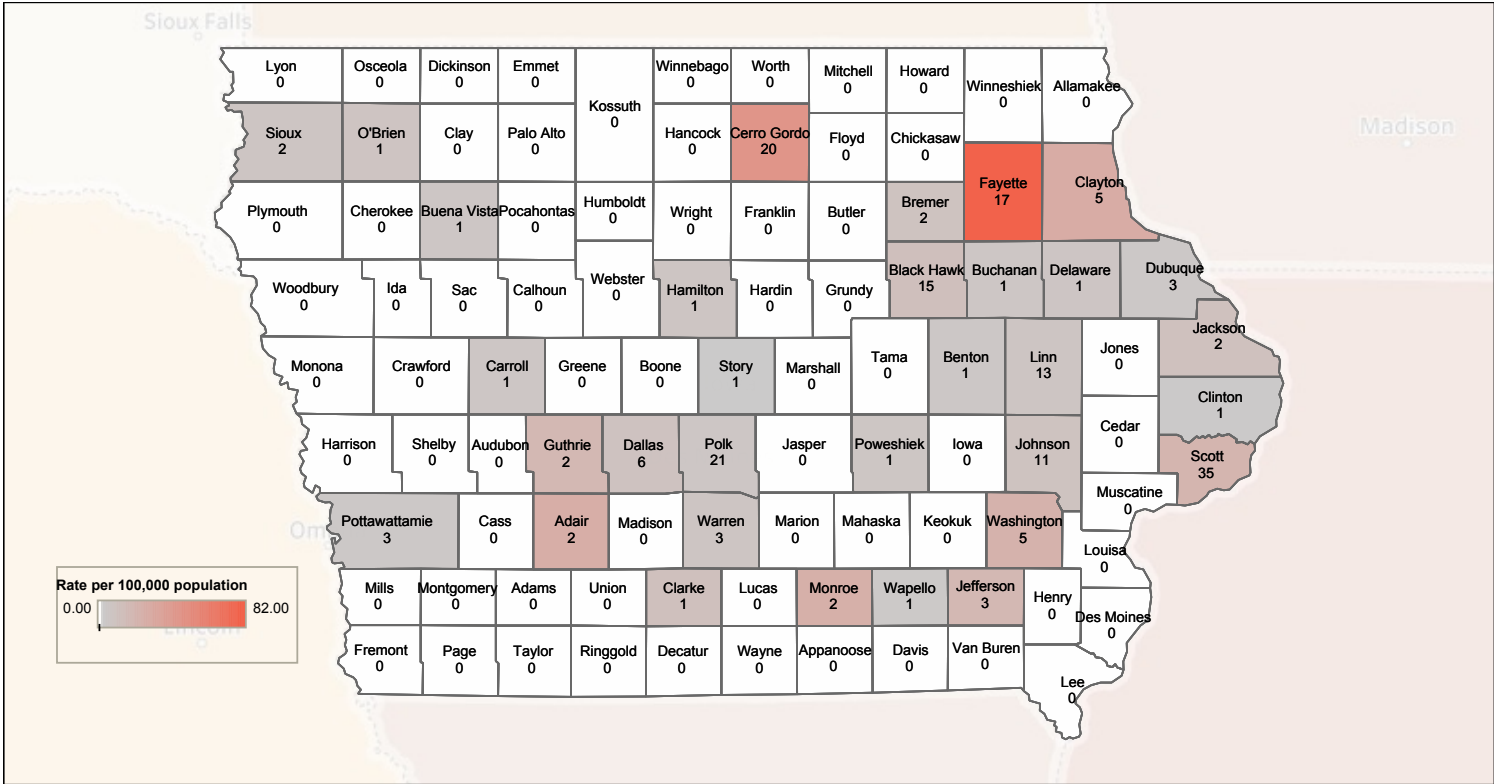
Pertussis

10
Cases in July

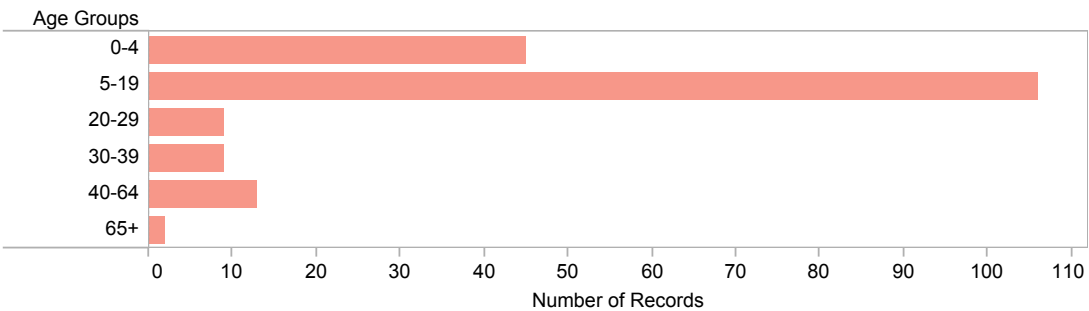
184
Cases in the last 12 months

-3%
Change from previous
5 year average

Reported pertussis cases and incidence rates per 100,000 population by county of residence for the past 12 months



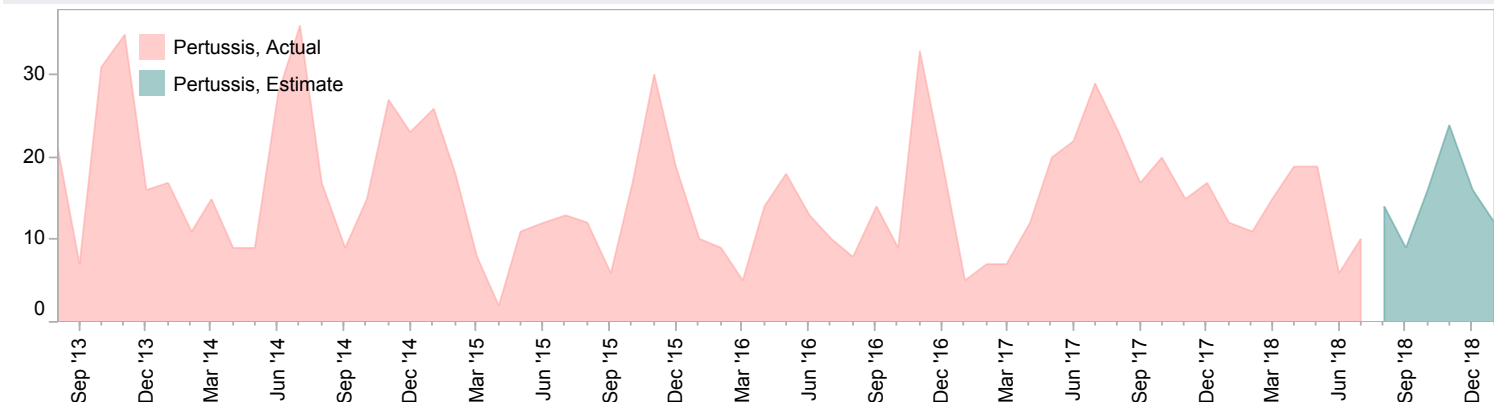
Pertussis cases by age past 12 months.



3%
of pertussis cases were
hospitalized in the past 12
months

Female	103
Male	81

Reported pertussis cases by date of onset or first lab result and 6 month forecast



Salmonella

120

Cases in July

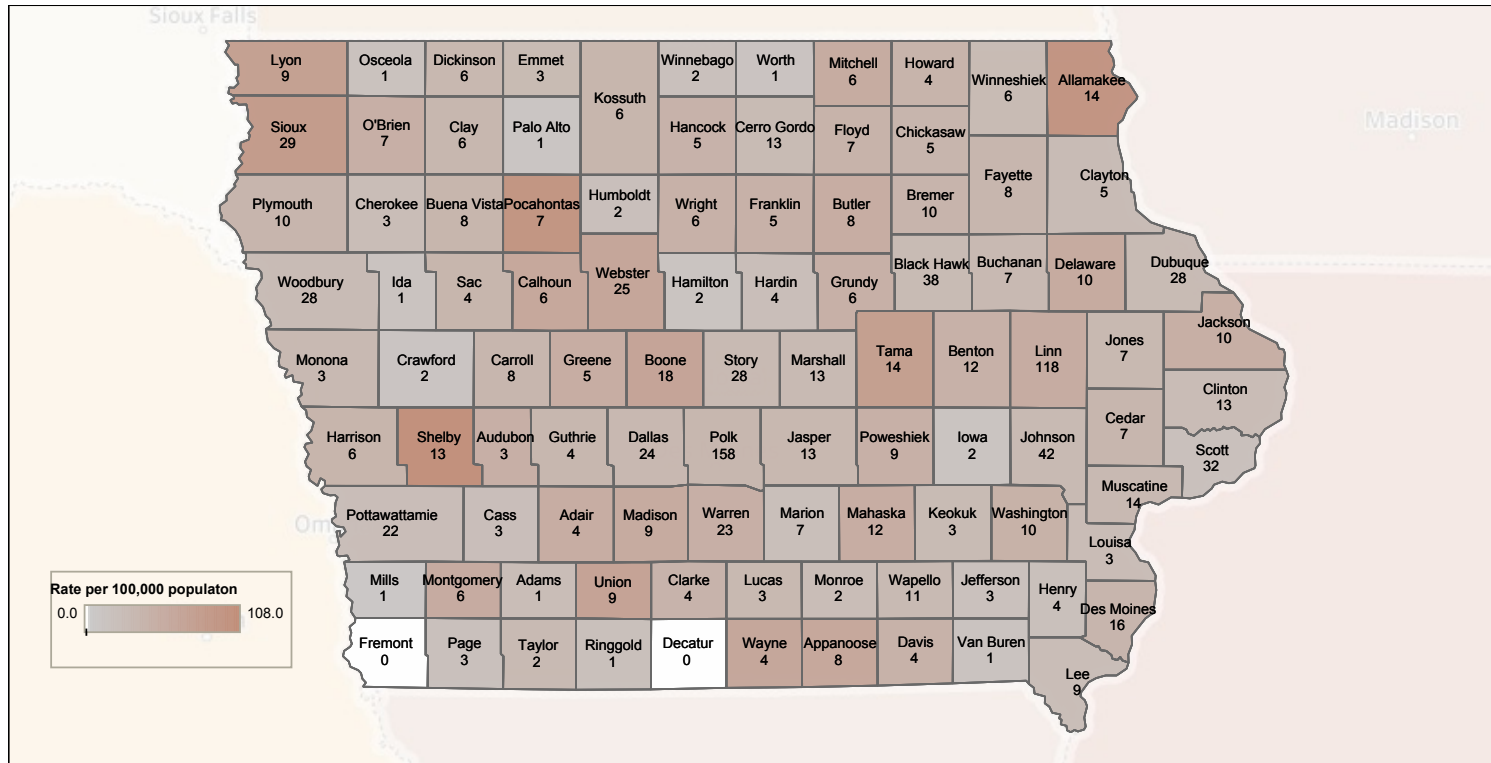
1,128

Cases in the last 12 months

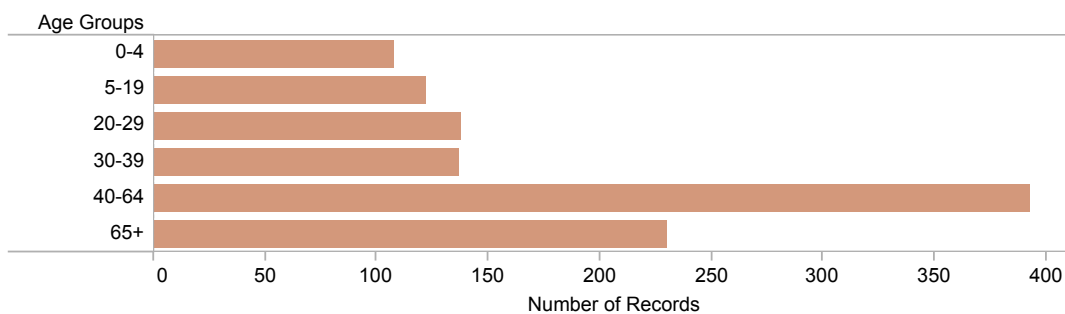
92%

Change from previous
5 year average

Reported salmonellosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Salmonellosis cases by age past 12 months. Over a third of all cases occurred in the 40-64 year age group.



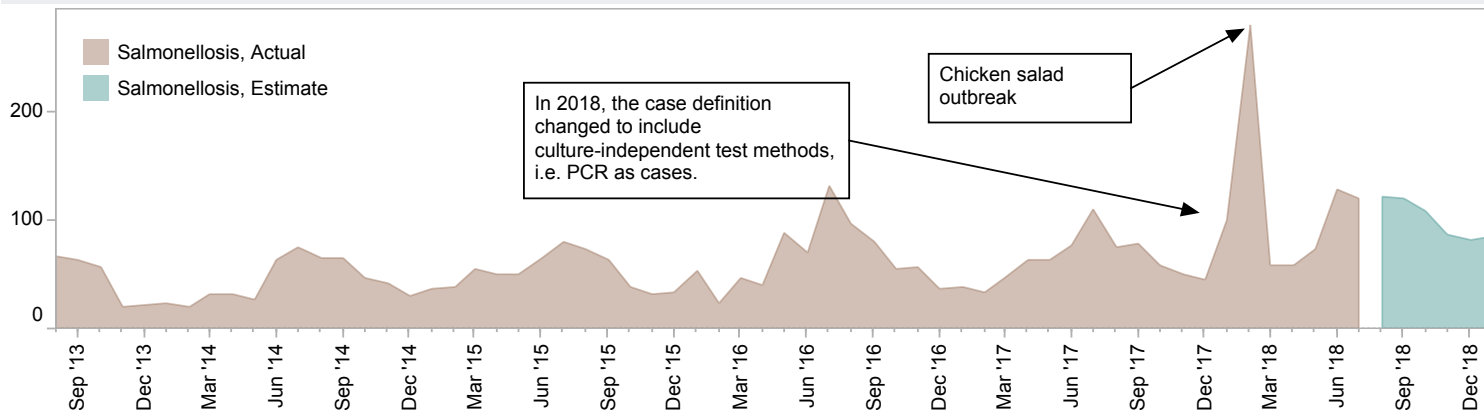
25%

of Salmonella cases were
hospitalized in the past 12
months

Salmonellosis cases by gender past 12 months

Female	623
Male	505

Reported salmonellosis cases by date of onset or first lab result and 6 month forecast



Shigella

12

Cases in July

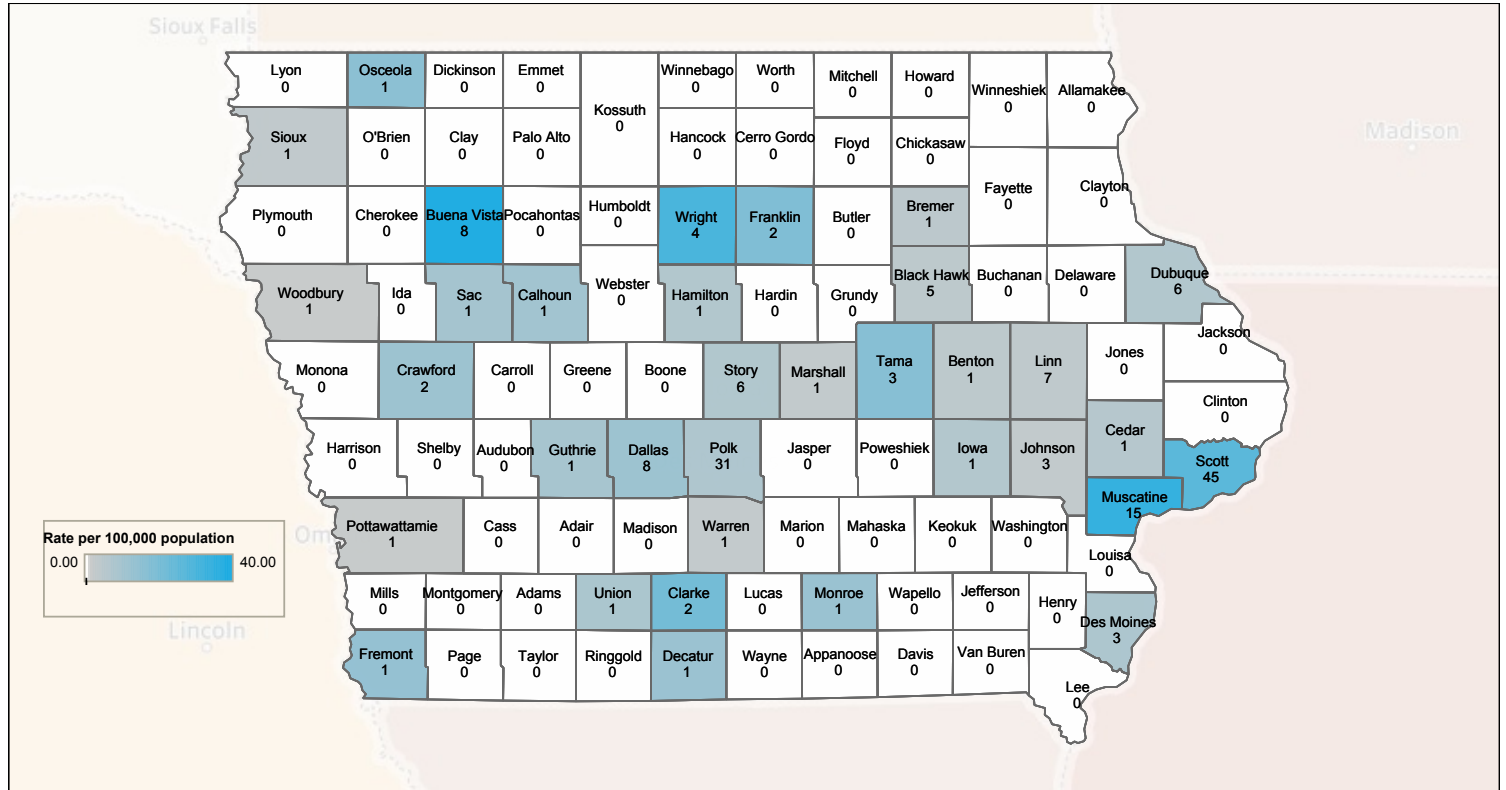
168

Cases in the last 12 months

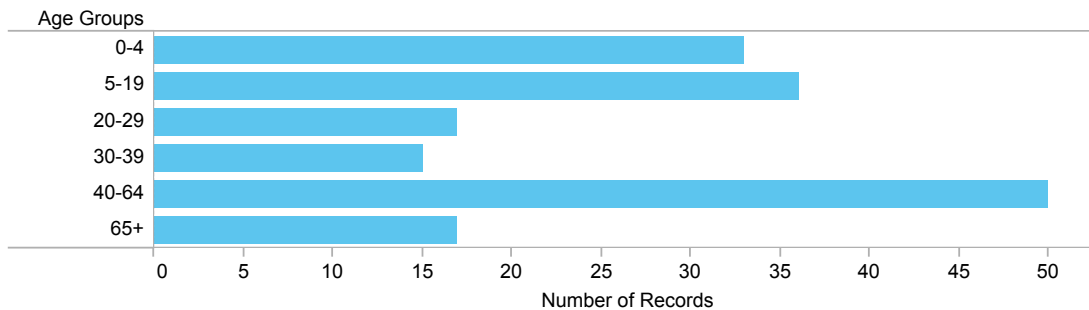
-51%

Change from previous
5 year average

Reported shigellosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Shigellosis cases by age past 12 months.



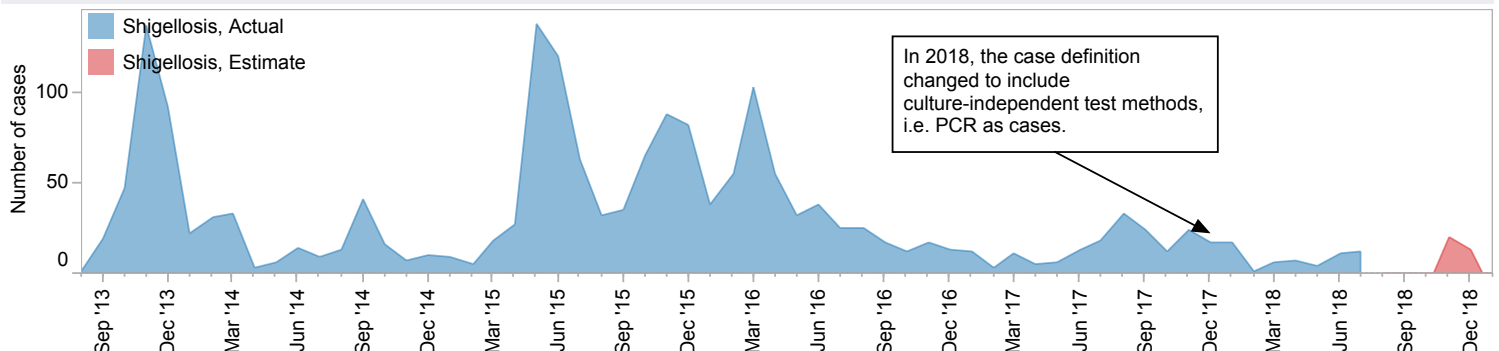
17%

of Shigella cases were
hospitalized in the past 12
months

Shigellosis cases by gender past 12
months

Female	99
Male	69

Reported shigellosis cases by date of onset or first lab result and 6 month forecast



Select low-prevalence disease summaries

Legionella

4

Case in July

41

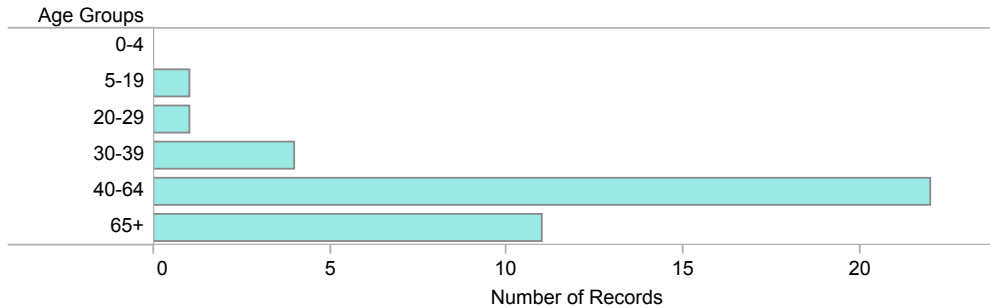
Cases in the last 12 months

55%

Change from previous 5 years

..

Legionellosis cases by age past 12 months. No cases occurred in persons 0-19 years of age.



95%

of Legionella cases were hospitalized in the past 12 months

Legionellosis cases by gender past 12 months

Legionellosis	Female	11
	Male	30

Q Fever (acute and chronic)

0

Case in July

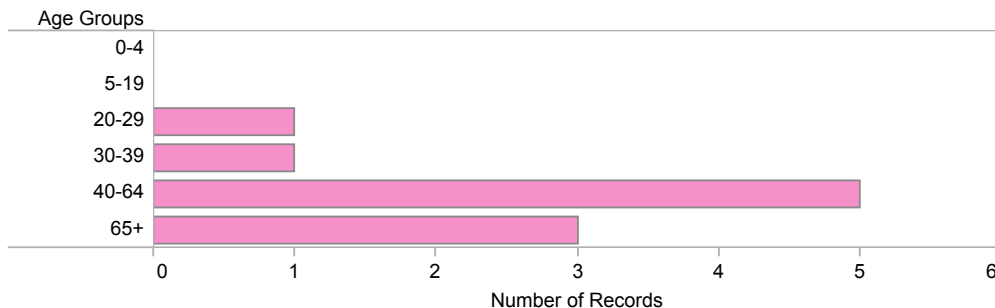
10

Cases in the last 12 months

+47%

Decrease from previous year
(Q fever was made reportable in 2016)

Q fever cases (acute and chronic) by age in the past 12 months. No cases occurred in persons 0-19 years old.



90%

of Q fever cases were hospitalized in the past 12 months

Q fever cases by gender past 12 months

Q Fever (acute and chronic)	Female	2
	Male	8

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